

Without a rectifier tube installed, the power receptacle was plugged into the Variac and the power was turned up slowly while watching for fireworks/smoke. Filament voltage between pins 2 and 8 measured 5.3 Vac.

B+ voltage across R30 measured -0.363 Vdc.

B- voltage across R6 measures -145.3 Vdc.

NO rectifier!!!

Next, a 5AR4 rectifier tube was installed and allowed to warm up.

B+ voltage across R30 measured 372.3 Vdc.

B- voltage across R6 -143.2 Vdc.

45 tubes : filament voltage across pins 1 and 4 measured ~2.476 Vdc on both tube sockets.

300b tubes : filament voltage across pins 1 and 4 measured ~5.1 Vdc on both tube sockets.

The gate voltages for the output tubes measured about -107 Vdc.

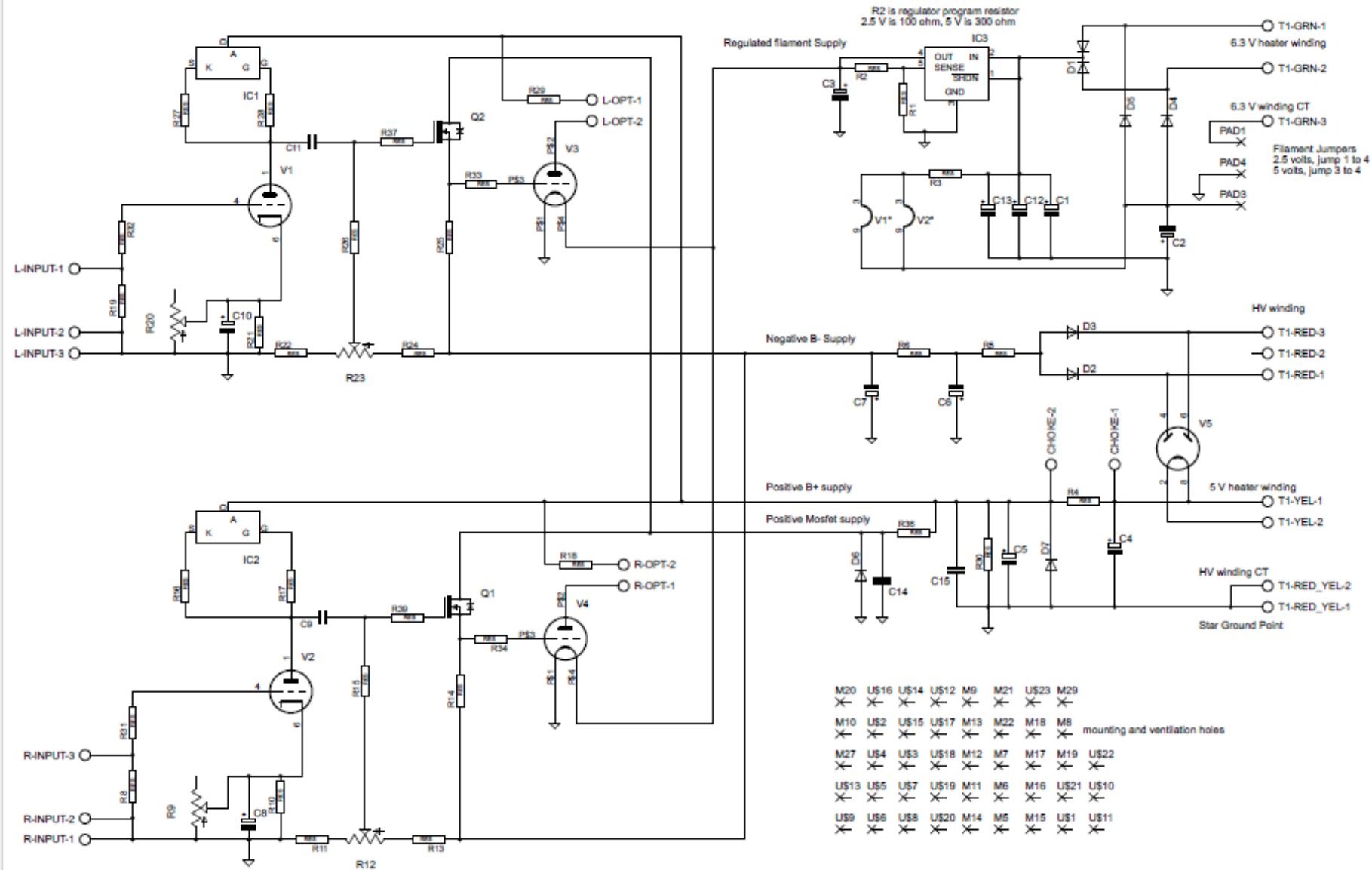
Inserted the 5842 tubes into their sockets and put a positive meter lead on the coupling cap nearest the 5842 tube, (**C9 and C11**), and the negative lead to ground.

Adjusting R9 and R20 to around 175 Vdc.

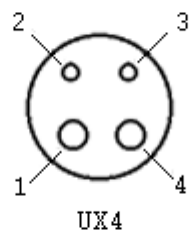
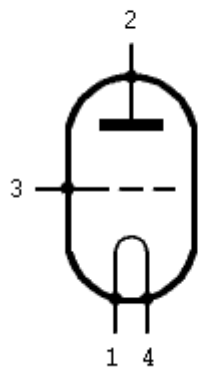
Powered down and a few minutes later connected some bts crummy speakers to the OPT connectors: L-OPT-1 is red and L-OPT-2 is black. R-OPT-2 is black and R-OPT-1 is red. Installed the 45 tubes and leads across R18 and R29. Adjusted R12 and R23 to 27mA.

With all tubes installed, B+=339 Vdc, B-=-161.4 Vdc.

Measuring at the output tube pins, B+ = ~323.8 V dc, B- = -78.4.



300B Tube Pinout Diagram



Pin Connections

1. Filament/Cathode
2. Anode
3. Grid
4. Filament/Cathode

Filament 5V @ 1.2A

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